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PATENT
BRENDA 8
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY APPLICATION AND APPLICATION FEE TRANSMITTAL (1.53(b))

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Washington, DC 20231

Sir:

Transmitted herewith for filing is the patent application of:

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For: AUTOMATED CROSS-CULTURAL CONFLICT MANAGEMENT

Enclosed are

- ☒ 16 pages of specification, 1 page of Abstract, 3 pages of claims 1-20
☒ 3 sheets of drawings ☒ formal ☐ informal
☒ 1 pages of Declaration and Power of Attorney
☐ unsigned ☒ newly executed ☐ copy from prior application
☐ Deletion of inventors including Signed Statement under 37 C.F.R. § 1.63(d)(2)
☐ Claim for Priority
☐ Certified copy of Priority Documents ☐ English translation
☐ Information Disclosure Statement ☐ copy of cited references
☐ copy of PTO-1449 filed in parent application serial no.
☐ Preliminary Amendment
☒ Return receipt postcard
☐ Assignment papers (assignment cover sheet and assignment documents)
☐ a check in the amount of \$40.00 for recording the Assignment
☐ Assignment papers filed in parent application serial no.
☐ Certification of chain of title pursuant to 37 C.F.R. § 3.73(b)
☐ This is a ☐ continuation ☐ divisional ☐ continuation-in-part (CIP)
of prior application serial no.
☐ Cancel in this application original claims of the parent application before calculating the
filing fee (at least one original independent claim must be retained for filing purposes).
☐ A Preliminary Amendment is enclosed, adding claims numbered consecutively after the highest
numbered original claim in the prior application.
☐ The status of the parent application is as follows:
☐ A Petition For Extension of Time and proper Fee has been or is being filed in the parent
application to extend the term for action in the parent application until .
☐ A copy of the Petition For Extension of Time in the co-pending parent application is attached.
☐ No Petition For Extension of Time is necessary in the co-pending parent application.
☐ Please abandon the parent application at a time while the parent application is pending or at a time
when the Petition For Extension of Time in that application is granted and while this application is
pending or has been granted a filing date, so as to make the application co-pending.
☐ Transfer the drawings from the parent application to this application.
☐ Amend the specification by inserting before the first line the sentence:
This is a ☐ continuation ☐ divisional ☐ continuation-in-part (CIP) of co-pending application
serial no. filed .



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CALCULATION OF APPLICATION FEE (For a Small Entity)

	No. Filed	No. Included in Basic Fee	No. Extra	Rate per Claim	TOTAL
Basic Fee					355
Total Claims	20	20		9	
Independent Claims	2	3		40	
Multiple Dependent Claims				135	
TOTAL					355


☒ Small Entity Status is claimed. Reduced fees under 37 C.F.R. § 1.9(f) are paid herewith.

☐ A check in the amount of \$_____ in payment of the application filing fee is attached.

☒ A Credit Card Payment Form authorizing payment of \$ 355.00 is enclosed.

Respectfully submitted,

Date: November 13, 2000


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Filed : Herewith

Group Art Unit:

Examiner :

For : AUTOMATED CROSS-CULTURAL CONFLICT MANAGEMENT

EXPRESS MAIL CERTIFICATE

Express Mail Label No: EK677471400US

Date of Deposit: November 13, 2000

I hereby certify that the following attached paper(s) and/or fee

1. Application including 16 pg. specification, 1 pg. Abstract, 3 pg. claims
2. 3 sheets drawings
3. Declaration, signed
4. Application Fee Transmittal
5. Credit Card Payment Form for \$355.00
6. Return receipt postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and are addressed to the Assistant Commissioner for Patents, Washington, DC 20231.


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION FOR LETTERS PATENT

Inventors : Nora FEMENIA
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Title : AUTOMATED CROSS-CULTURAL CONFLICT MANAGEMENT

AUTOMATED CROSS-CULTURAL CONFLICT MANAGEMENT

BACKGROUND OF THE INVENTION

The present invention relates to alternative dispute resolution, and more particularly, is directed to a fully automated system and method for facilitating negotiation of a conflict at least two parties.

Alternative dispute resolution encompasses techniques by which disputants privately resolve a disagreement without using the public justice system. An impartial or neutral third party often participates, either as an arbitrator or mediator. An arbitrator hears the stories presented by the respective disputants, and renders a decision. A mediator hears the stories presented by the respective disputants, and helps the parties come to an agreement.

However, participation of the third party can be expensive. Additionally, if the disputants have substantially different cultural backgrounds, then this difference can be a source of misunderstanding. If a third party shares the cultural background of one party, but not the other, then the resolution may be unfair due to lack of cultural sensitivity.

Automated systems exist for resolving conflicts. However, the conventional systems usually assume that a human is directing the dispute resolution, and assume all parties have the same cultural context.

Accordingly, there is a need for a low-cost, culturally sensitive solution to the problem of managing conflict resolution between disputants having different cultural backgrounds.

SUMMARY OF THE INVENTION

In accordance with an aspect of this invention, there are provided a method of and a system for managing a dispute. Information relating to the dispute is automatically received

1 from one of an initiator and a respondent, and portions of the information are iteratively provided
2 to the other of the initiator and the respondent in accordance with predetermined criteria.

3 According to a further aspect of the invention, the received information includes at least
4 one factor and an evaluation of the desirability or cost of the factor. In some cases, the at least
5 one factor includes at least two of historical harm, future harm, an incentive, a punishment, a
6 request, an offer, and a desired outcome.

7 According to a further aspect of the invention, factors relating to the dispute are
8 iteratively received from the other of the initiator and the respondent, and evaluations of the
9 desirability or cost of the portions of iteratively provided information are iteratively received
10 from the other of the initiator and the respondent.

11 According to a further aspect of the invention, an agreement to resolve the dispute is
12 automatically proposed based on the received information; factors relating to the dispute
13 received from the other of the initiator and the respondent; and an evaluation of desirability from
14 the initiator or the respondent and an evaluation of cost from the other of the initiator or the
15 respondent, the evaluations being associated with the same portion of the dispute related
16 information or the same dispute related factor.

17 It is not intended that the invention be summarized here in its entirety. Rather, further
18 features, aspects and advantages of the invention are set forth in or are apparent from the
19 following description and drawings.

20 BRIEF DESCRIPTION OF THE DRAWINGS

21 Fig. 1 is a block diagram showing the environment in which the present invention is
22 applied; and

Figs. 2 and 3 are flowcharts showing embodiments of conflict management according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

A conflict or dispute between at least two parties is managed to reflect the cultural context of the parties. When the party is from a low context culture, conflict management assumes the party prefers to adopt a transactional viewpoint and to select from a set of possible resolutions. When the party is from a high context culture, dispute resolution assumes the party prefers to view the dispute as part of a relationship and to be advised as to appropriate actions. A system bridges between the cultural contexts of the parties by collecting and providing information in accordance with the culturally preferred procedure of each party.

An advantage of the present system is that each party perceives it as user-friendly. Another advantage of the present system is that agreements reached using the present system are perceived as fair, since each party has the opportunity to relate the agreement to its cultural context according to its own preferences.

Referring now to the drawings, and in particular to Fig. 1, there is illustrated an environment in which the present invention is applied. Fig. 1 shows initiator 20, respondent 30 and system 40 respectively coupled to communication network 10. In one embodiment, each of initiator 20 and respondent 30 is represented by a general purpose personal computer having e-mail and a browser program, such as Netscape or Explorer, for Internet access, system 40 is a general purpose computer programmed to serve web pages, and send and receive e-mail as described below, and network 10 is the Internet. The actual communication links may use wireline or wireless lines. In another embodiment, instead of personal computers, intelligent handheld devices or the like are used.

1 Fig. 2 depicts a flowchart for an embodiment assuming that initiator 20 is from a low
2 context culture and respondent 30 is from a high context culture. People from low context
3 cultures tend to place high value on individual choices and will focus on a transaction by itself,
4 while people from high context cultures tend to want to do the right thing for the community and
5 will consider a transaction as part of a relationship.

6 Let it be assumed that the initiator and respondent entered into a contract for initiator to
7 deliver an item to respondent after an initial partial payment and then to accept remaining
8 payments according to a schedule. Misunderstandings may have begun already. Generally, the
9 low context culture initiator will assume that performance will be provided in a tit-for-tat manner
10 according to the contract. However, the high context culture respondent will probably see this
11 contract as the start of a relationship; since a delayed payment schedule is provided, the
12 respondent will interpret this as an opportunity to “play with” the relationship. More
13 particularly, if the initiator is not nurturing the relationship on an on-going basis, the respondent
14 may withhold payment in retaliation for withholding of attention by the initiator. Meanwhile,
15 since on-going attention was not explicitly part of the contract, the initiator may be utterly
16 unaware that the respondent feels short-changed. Let it be further assumed that respondent 30
17 has not paid according to the payment schedule, and initiator 20 is using system 40 to resolve the
18 payment dispute.

19 Since initiator 20 is from a low context culture, system 40 obtains all the information
20 from initiator 20 relating to the dispute at an initial time, reflecting the propriety of viewing the
21 dispute as a transaction. The information comprises factors relating to the dispute and the
22 initiator’s portion of a rating of the information. As the conflict resolution progresses, system 40

1 provides opportunities to initiator 20 to update its information in response to new information
2 from respondent 30.

3 Since respondent 30 is from a high context culture, system 40 provides information to
4 respondent 30 in a way that paints a picture around respondent 30 and enables respondent 30 to
5 contribute to the picture. That is, system 40 provides portions of the initiator's information in an
6 iterative manner, interspersing facts, feelings and future directions, while soliciting similar
7 information from respondent 30, reflecting the propriety of viewing the dispute as part of an on-
8 going relationship that is strengthened by the disputants working together. System 40 uses
9 predetermined criteria for deciding which iteration should reveal which portion of the initiator's
10 information. System 40 automatically advises respondent 30 as to its overall situation.

11 During each iteration, system 40 assembles the initiator's and respondent's portions of
12 the rating of at least one factor. Generally, a factor is an incentive or a punishment, based on
13 whether the recipient is expected to want or avoid the factor. A factor may also be a desired
14 outcome for the instant dispute, or actual or expected harm resulting from non-performance of
15 the contract. When the factor relates to something experienced by or to be provided by a party,
16 the rating is referred to as a "cost". When the factor relates to something that a party wants, the
17 rating is referred to as a "desirability". The full rating for a factor comprises its cost and
18 desirability. For this example, each of "cost" and "desirability" can assume one of three values:
19 "low", "medium" and "high". In other embodiments, cost and desirability may assume
20 continuous or discrete values, and may have differ by factor.

21 An example of predetermined criteria for iteratively providing information to the
22 respondent is to provide factors a "high" desirability or cost rating on the first iteration, then
23 factors having a "medium" desirability or cost rating on the second iteration, then factors having

1 a “low” desirability or cost rating on the third iteration. Other criteria may be to provide factors
2 having a rating equal to a predetermined threshold, when factors have been assigned numerical
3 ratings, or to provide a certain number of factors at each iteration. Other criteria and variations
4 thereof will be apparent to one of ordinary skill.

5 During each iteration, system 40 automatically proposes at least one agreement
6 considering the full ratings of the factors of the agreement.

7 At step 105, initiator 20 provides information to system 40 including factors and the
8 initiator’s rating of the desirability or cost of the factors. Typically, initiator 20 provides the
9 information through Internet web pages, but may alternatively fill out a paper form or provide
10 the information via e-mail or use other suitable form of communication. System 40 then sorts
11 the factors based on their rating. For this example, it is assumed that the negotiation will span, at
12 most, three iterations, and the factors, if any, having one of the three ratings will be considered at
13 each iteration.

14 Generally, the initiator’s information includes the following types of information, each
15 instance of which is referred to as a factor:

- 16 1. problem description – e.g., third and fourth payments not made according to schedule
17 provided in contract of February 2000;
- 18 2. harms – historical, future, actions taken or contemplated to mitigate damages;
- 19 3. incentives to initiator to continue relationship – e.g., diversity in client base, visibility of
20 product in another country;
- 21 4. incentives to respondent to continue relationship – e.g., will extend credit in a future deal,
22 will serve as a recommendation, will provide introductions, will co-market respondent’s
23 product, will invite respondent to a special conference, will provide additional training to

respondent, will include respondent in design group for next generation of product, will schedule monthly status checks;

5. punishments to respondent for not resolving instant dispute – e.g., bad media publicity, complaint letter to community organization such as Chamber of Commerce, local lawsuit, mandatory arbitration in New York City, repossess item, find new trading partner. In some cases, initiator 20 may specify a punishment that will occur if an agreement is not reached (see step 185);

6. community of respondent – companies and people in business field and in geographical location of respondent. System 40 offers to search Internet databases and possibly other databases, such as Dun & Bradstreet, to locate relevant community information. In some cases, initiator 20 reviews the results of the search and selects appropriate information;
7. personal information about initiator: hopes when contract entered, embarrassment or lost opportunities relating to harm, hopes for future relationship; and
8. desired resolution: at least one acceptable outcome.

System 40 encourages initiator 20 to provide at least one factor for each type of information.

Then, system 40 enables initiator 20 to provide its portion of the rating for each factor. In some embodiments, system 40 provides a default rating that initiator 20 may override. Cost ratings, that is, one of (low, medium, high), are provided for harms, punishments and selected personal information. Desirability ratings, that is, one of (low, medium, high), are provided for incentives, desired resolutions and the remaining personal information.

As part of the community information, initiator 20 may specify a compliance authority, that is, a party to whom an agreement should be reported. The compliance authority will also receive notice of performance or non-performance under the dispute resolution agreement. It is

1 expected that respondent 30 will be motivated by the visibility of its actions to the compliance
2 authority.

3 At step 110, system 40 prepares a complaint letter for respondent 30 based on the
4 information provided by initiator 20 at step 105. Typically, system 40 sends the complaint letter
5 to respondent 30 via e-mail, but may alternatively direct respondent 30 to an Internet web page,
6 provide a voice message or use other suitable form of communication.

7 At step 115, respondent 30 provides an answer to the complaint letter, providing reasons
8 why the promised performance did not occur. Examples might include a fire at the respondent's
9 factory, non-payment of the respondent's accounts receivable, malfunctioning of the initiator's
10 product and so on.

11 System 40 forwards the answer information to initiator 20, and at step 120, initiator 20
12 has the opportunity to update its previously provided information in response to the new
13 information from respondent 30. More specifically, facts may exist that initiator 20 had been
14 unaware of, and which are proper reasons for non-performance according to a low context
15 culture that typically strictly construes contracts, and so initiator 20 will update its information,
16 possibly eliminating the reasons for non-performance. On the other hand, respondent 30 may lie
17 or use excuses for non-performance as its way of asserting its position in the relationship, and in
18 this case, initiator 20 need not update its information, relying on system 40 to manage the
19 dispute.

20 In a modification, at step 130, initiator 20 may set a delay timer to suspend negotiations.
21 During the suspension period, initiator 20 may correct problems reported by respondent 30 or
22 take other actions.

At step 125, system 40 advises respondent 30 that this dispute must be attended to. In this manner, system 40 acts as a representative of the community conscience on behalf of initiator 20. Also at step 125, system 40 provides initiator's personal information having a rating of "high" desirability or "high" cost. At step 130, system 40 elicits corresponding personal information from respondent 30, such as through a questionnaire on a web page. System 40 forwards the respondent's personal information to initiator 20, and at step 135, initiator 20 has the opportunity to update its previously provided information in response to the new information from respondent 30.

At step 140, system 40 provides initiator's incentive and punishment factors having a rating of "high" desirability or "high" cost to respondent 30. At step 145, system 40 elicits offers and requests relating to the continuing relationship from respondent 30, such as through a questionnaire on a web page. Then, at step 150, system 40 elicits the respondent's desirability and cost rankings for the initiator's factors and the offers and requests just supplied by respondent 30. System 40 forwards the respondent's offer and request factors to initiator 20, and at step 155, elicits the initiator's desirability and cost rankings for the respondent's offers and requests. At step 160, initiator 20 has the opportunity to update its previously provided information in response to the offers and requests from respondent 30.

Examples of request factors from respondent 30 are: on-site service, extension of warranty, a new delayed payment schedule, more frequent status calls and so on. Examples of offer factors from respondent 30 are: a future purchase, introductions to local businesses, invitations to local business events and so on.

At step 165, system 40 proposes an agreement based on the full rankings for the factors considered in this iteration. In some embodiments, the harm already experienced by initiator 20,

and the importance of the initiator's desired outcome are also considered by system 40 in arriving at a proposed agreement.

One technique for automatically generating a proposed agreement is to find factors having a full rating of (desirability = high, cost = low) and place them in the proposed agreement. Then system 40 counts the number of desirability factors for each disputant, and if the imbalance is more than one, system 40 adds another desirability factor to the smaller side, ranking the factors, in order of most preferable, as follows:

(desirability = high, cost = medium)

(desirability = high, cost = high)

(desirability = medium, cost = low)

(desirability = medium, cost = medium)

Other techniques may be used, for example, treating three medium desirability factors as equivalent to one high desirability factor. When the rankings are quasi-continuous (e.g., a number between 1 and 100 or visually setting a slider bar between a left endpoint and a right endpoint), a formula may be employed. In some embodiments, a disputant may specify a factor as required for an acceptable agreement.

System 40 assumes that initiator 20, having a low context viewpoint, mainly cares about getting its desired outcome. Accordingly, any agreement approved by respondent 30 that includes the desired outcome is assumed to be acceptable. In other embodiments, system 40 may provide an opportunity for initiator 20 to review the agreement before assuming it is satisfactory.

At step 170, system 40 presents its proposed agreement to respondent 30. If respondent 30 accepts the agreement, then at step 195, system 40 reminds initiator 20 to report the agreement to a compliance authority, if any, and processing is completed.

1 If, at step 170, respondent 30 did not accept the agreement, then system 40 forwards the
2 proposed rejected agreement to initiator 20, and at step 175, initiator 20 has the opportunity to
3 update its previously provided information in response thereto.

4 In a modification, respondent 30 has the opportunity to adjust the factors included in the
5 proposed agreement to generate a revised agreement. In some cases, system 40 is able to
6 evaluate the revised agreement on behalf of initiator 20, such as by checking whether the desired
7 outcome is still present. In other cases, system 40 forwards the revised agreement to initiator 20
8 for consideration. In a further modification, initiator 20 has the opportunity to adjust the factors
9 included in the revised agreement to generate a re-revised agreement.

10 In another embodiment, at step 175, initiator 20 can set a delay timer to suspend
11 negotiations. While negotiations are suspended, initiator 20 may take actions such as contacting
12 respondent 30 or members of the respondent's community, or implementing so-called
13 punishments and so on.

14 At step 180, system 40 checks whether there are any incentive or punishment factors
15 from initiator 20 remaining. It will be recalled that these factors were provided at step 105, and
16 possibility updated or additional factors were provided at steps 120, 135, 160 and 175. If there
17 are factors remaining, then system 40 returns to step 125 for another iteration of negotiation. In
18 this example, in the second iteration, system 40 provides stronger advice to respondent 30, and
19 provides the initiator's factors having a ranking of "medium" cost or desirability, and then elicits
20 responses from respondent 30. If respondent 30 rejects the agreement proposed by system 40 at
21 the second iteration, then a third iteration will similarly occur, wherein system 40 provides the
22 initiator's factors having a ranking of "low" cost or desirability. In other embodiments, the
23 number of iterations may be determined based on, e.g., how many factors respondent 30 provides

1 at each iteration of step 145, or a rating of the proposed agreement by respondent 30 or other
2 suitable criteria.

3 In some embodiments, the parties have the opportunity to adjust the factors included in
4 the proposed agreement only after system 40 is not able to propose additional agreements.

5 If at step 180, system 40 determines that there are no unrepresented factors from initiator
6 20, then at step 185, system 40 notifies respondent 30 of the specified punishment action that
7 initiator 20 will take, and at step 190, system 40 provides respondent 30 with another opportunity
8 to agree to one of the previously proposed agreements. In a modification, respondent 30 has the
9 opportunity to adjust proposed agreements, or propose its own agreement at step 190. If an
10 agreement is reached, system 40 proceeds to step 195. If an agreement is not reached, then at
11 step 200, system 40 notifies initiator 20 that respondent 30 has been warned that the specified
12 punishment will occur, and processing is complete.

13 Fig. 3 depicts a flowchart for an embodiment assuming that initiator 20 is from a high
14 context culture and respondent 30 is from a low context culture. Generally, Fig. 3 illustrates how
15 system 40 can bridge between a high context culture and a low context culture in similar manner
16 as described above with regard to Fig. 2.

17 Let it be assumed that the initiator and respondent entered into a contract for initiator to
18 deliver an item to respondent after an initial partial payment and then to accept remaining
19 payments according to a schedule. Let it be further assumed that respondent 30 has not paid
20 according to the payment schedule, and initiator 20 is using system 40 to resolve the payment
21 dispute.

1 Since initiator 20 is from a high context culture, system 40 obtains information from
2 initiator 20 according to a gradual iterative process, interspersing collection of factual
3 information with collection of personal information.

4 Since respondent 30 is from a low context culture, system 40 provides collected
5 information as a one-time event, assuming that respondent 30 will prefer to deal with this dispute
6 as one “action item” on an agenda, as opposed to an on-going portion of its business activity.
7 Instead of advising respondent 30, system 40 presents alternatives, assuming that respondent 30
8 prefers to select its own outcome rather than be advised.

9 At step 205, initiator 20 provides a description of the problem and their feelings
10 regarding the problem, and if desired, the entire relationship between initiator 20 and respondent
11 30, such as replying to questions presented at a web site. At step 210, system 40 prepares a
12 complaint letter focusing on the facts of the complaint and summarizing the feelings of initiator
13 20. After initiator 20 has approved the complaint letter, system 40 sends the complaint letter to
14 respondent 30, such as via e-mail or other suitable transmission mode.

15 At step 215, respondent 30 provides information relating to why it has not made
16 payments on time, request factors for initiator 20 and their desirability ratings, offer factors to
17 initiator 20 and their cost ratings, personal information as of when the contract was entered into,
18 the current situation and expected future situations, and provides references that initiator 20 may
19 contact to discuss the character of respondent 30. Respondent 30 also indicates at what time
20 during the dispute resolution its information should be revealed to initiator 20, that is “early”,
21 “intermediate” or “well into” the dispute resolution; these are referred to as “timing indications”.
22 For example, the first iteration of dispute resolution is “early”, whereas the second and third
23 iterations are “intermediate” and “well into”, respectively. In a modification, instead of or in

1 addition to timing indicators, respondent 30 may provide conditional triggers, of the form “reveal
2 this information only if the following event occurs”.

3 At steps 220, 230, 240 and 250, system 40 interactively provides to initiator 20 portions
4 of the information provided by respondent 30 in accordance with the timing indications and/or
5 conditional triggers from respondent 30. Interspersed with the provision of the respondent’s
6 information, at step 225, initiator 20 replies with its personal information, at step 235, initiator 20
7 replies with its own community information, at step 245, initiator 20 rates the desirability of the
8 offer factors from respondent 30, at step 250, initiator 20 provides incentives to respondent 30 to
9 agree to a resolution of the present dispute, at step 260, initiator 20 rates the costs of the request
10 factors from respondent 30, at step 265, initiator 20 provides punishments that it might take if
11 respondent 30 fails to agree on a resolution of the instant dispute, and at step 280, initiator 20
12 provides a few acceptable alternative outcomes.

13 At step 270, system 40 presents to respondent 30 the incentives and punishments
14 provided by initiator 20. At step 275, respondent 30 may optionally update (modify, delete or
15 add) the information supplied at step 215, and provides desirability and cost ratings for the
16 initiator’s incentives and punishments.

17 At step 285, system 40 advises initiator 20, such as suggesting provision of more
18 incentives or desired outcomes. As an example, system 40 tries to provide three different
19 agreements based on a variety of incentives, punishments and outcomes, and so can suggest
20 types of factors relative to “template” agreements having certain numbers of factors and/or
21 ratings. At step 290, initiator 20 decides whether to update, that is, modify, delete or add to, its
22 previously provided responses. If so, then system 40 returns to step 225.

1 If initiator 20 decides not to update its information, then at step 300, system 40 proposes
2 a set of dispute resolution agreements. System 40 may use similar techniques at step 300 as are
3 used at step 165 of Fig. 2, however, at step 300, system 40 is creating a set of agreements, rather
4 than one agreement. As an example, the set may comprise three agreements, the first having one
5 incentive and one offer, the second having two incentives and two offers, and the third having
6 three incentives and two offer and one request. Other ways of constructing sets of agreements
7 will be apparent to those of ordinary skill in the art of dispute resolution.

8 Steps 305-330 are broadly similar to steps 170-200 of Fig. 2, discussed above. Steps
9 305-330 will not be discussed here for brevity.

10 Although the embodiments presented include only two parties, it will be appreciated that
11 the instant techniques can be used with more than two parties.

12 For pre-contract negotiations, the present technique may be used in a diagnostic manner,
13 for example, to ensure that there are community connections and factors available for negotiation
14 should contract non-performance occur.

15 Although the embodiments presented assumed that the initiator and respondent were
16 operating according to different cultural models, high context and low context, in other
17 embodiments, the parties to the dispute may be operating according to the same cultural model,
18 or according to variations of a cultural model.

19 Although illustrative embodiments of the present invention, and various modifications
20 thereof, have been described in detail herein with reference to the accompanying drawings, it is
21 to be understood that the invention is not limited to these precise embodiments and the described
22 modifications, and that various changes and further modifications may be effected therein by one

- 1 skilled in the art without departing from the scope or spirit of the invention as defined in the
- 2 appended claims.

What is claimed is:

1. A method of managing a dispute, comprising:
automatically receiving information relating to the dispute from one of an initiator and a respondent, and
iteratively providing portions of the information to the other of the initiator and the respondent in accordance with predetermined criteria.
2. The method of claim 1, further comprising automatically retrieving information relating to the community of the other of the initiator and the respondent.
3. The method of claim 1, wherein the received information includes at least one factor and an evaluation of the desirability or cost of the factor.
4. The method of claim 3, wherein the at least one factor includes at least two of historical harm, future harm, an incentive, a punishment, a request, an offer, and a desired outcome.
5. The method of claim 1, further comprising iteratively receiving factors relating to the dispute from the other of the initiator and the respondent.
6. The method of claim 1, further comprising iteratively receiving evaluations of the desirability or cost of the portions of iteratively provided information from the other of the initiator and the respondent.
7. The method of claim 1, further comprising automatically proposing an agreement to resolve the dispute based on the received information.
8. The method of claim 7, wherein the agreement is automatically proposed in accordance with factors relating to the dispute received from the other of the initiator and the respondent.

9. The method of claim 8, wherein the agreement is automatically proposed in accordance with an evaluation of desirability from the initiator or the respondent and an evaluation of cost from the other of the initiator or the respondent, the evaluations being associated with the same portion of the dispute related information or the same dispute related factor.

10. The method of claim 1, further comprising automatically providing advice to the other of the initiator and the respondent based on iteratively provided information.

11. An apparatus for managing a dispute, comprising:
a computer for automatically receiving information relating to the dispute from one of an initiator and a respondent, and for iteratively providing portions of the information to the other of the initiator and the respondent in accordance with predetermined criteria.

12. The apparatus of claim 11, wherein the computer is also for automatically retrieving information relating to the community of the other of the initiator and the respondent.

13. The apparatus of claim 11, wherein the received information includes at least one factor and an evaluation of the desirability or cost of the factor.

14. The apparatus of claim 13, wherein the at least one factor includes at least two of historical harm, future harm, an incentive, a punishment, a request, an offer, and a desired outcome.

15. The apparatus of claim 11, wherein the computer is also for iteratively receiving factors relating to the dispute from the other of the initiator and the respondent.

16. The apparatus of claim 11, wherein the computer is also for iteratively receiving evaluations of the desirability or cost of the portions of iteratively provided information from the other of the initiator and the respondent.

17. The apparatus of claim 11, wherein the computer is also for automatically proposing an agreement to resolve the dispute based on the received information.

18. The apparatus of claim 17, wherein the agreement is automatically proposed in accordance with factors relating to the dispute received from the other of the initiator and the respondent.

19. The apparatus of claim 18, wherein the agreement is automatically proposed in accordance with an evaluation of desirability from the initiator or the respondent and an evaluation of cost from the other of the initiator or the respondent, the evaluations being associated with the same portion of the dispute related information or the same dispute related factor.

20. The apparatus of claim 11, wherein the computer is also for automatically providing advice to the other of the initiator and the respondent based on iteratively provided information.

ABSTRACT OF THE INVENTION

A conflict or dispute between at least two parties is managed to reflect the cultural context of the parties. When the party is from a low context culture, conflict management assumes the party prefers to adopt a transactional viewpoint and to select from a set of possible resolutions. When the party is from a high context culture, dispute resolution assumes the party prefers to view the dispute as part of a relationship and to be advised as to appropriate actions. A system bridges between the cultural contexts of the parties by collecting and providing information in accordance with the preferred procedure of each party.

FIG. 1 is a block diagram of a system architecture. The system includes a COMMUNICATION NETWORK (10) connected to an INITIATOR (20), a SYSTEM (40), and a RESPONDENT (30). The INITIATOR (20) is connected to the COMMUNICATION NETWORK (10) via a line. The SYSTEM (40) is connected to the COMMUNICATION NETWORK (10) via a line. The RESPONDENT (30) is connected to the COMMUNICATION NETWORK (10) via a line.

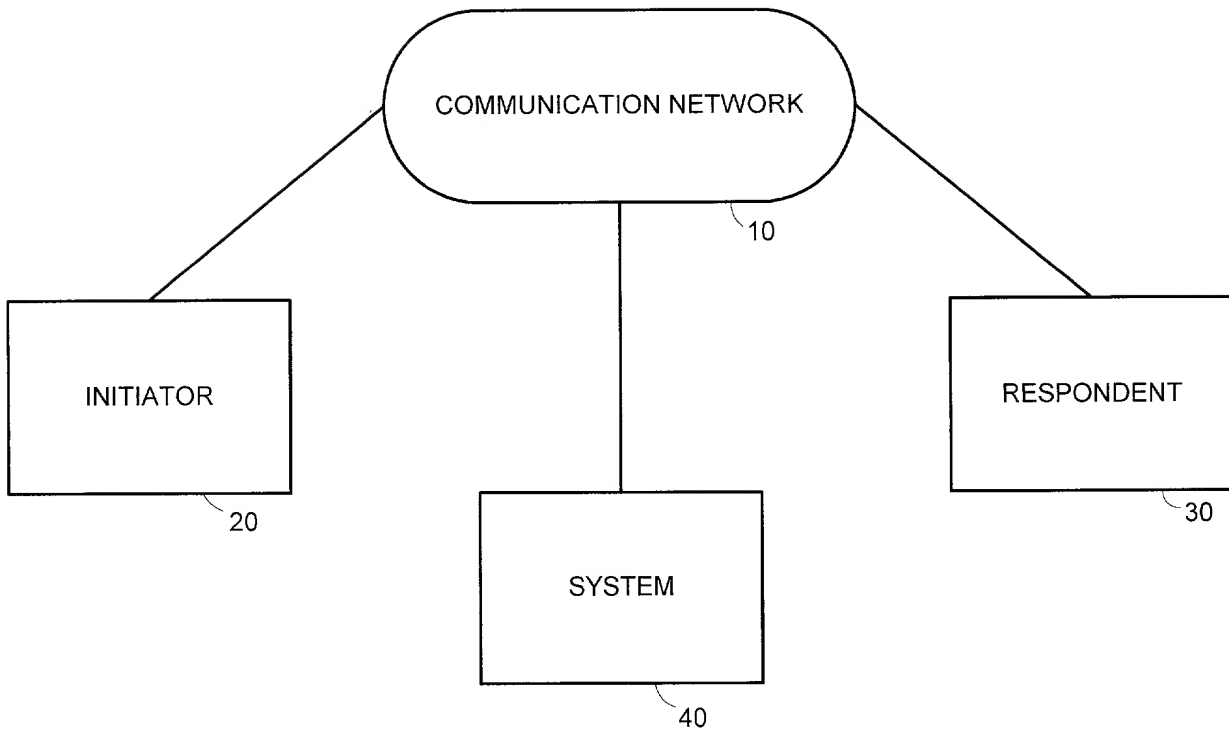
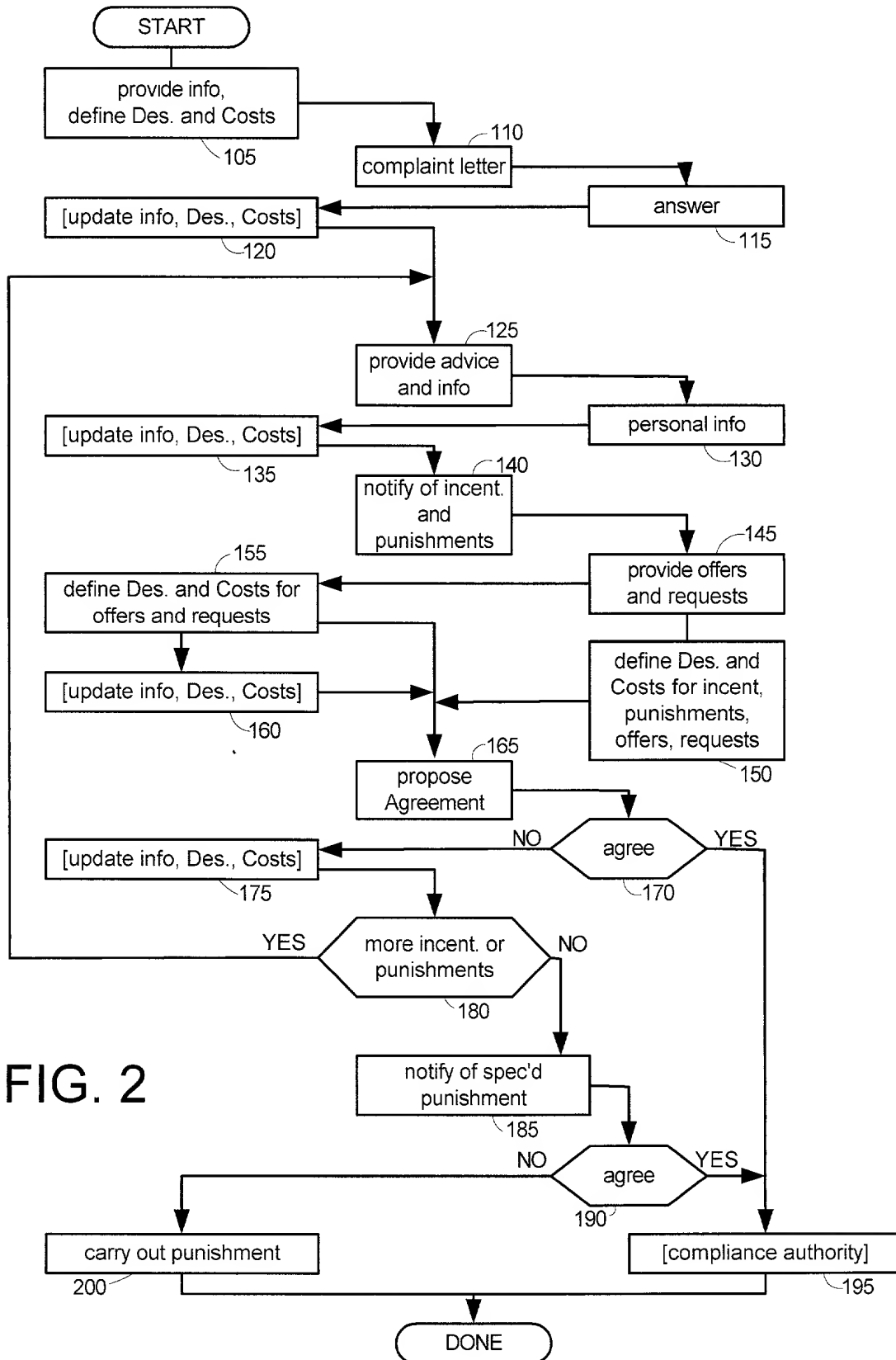


FIG. 1

INITIATOR 20

SYSTEM 40

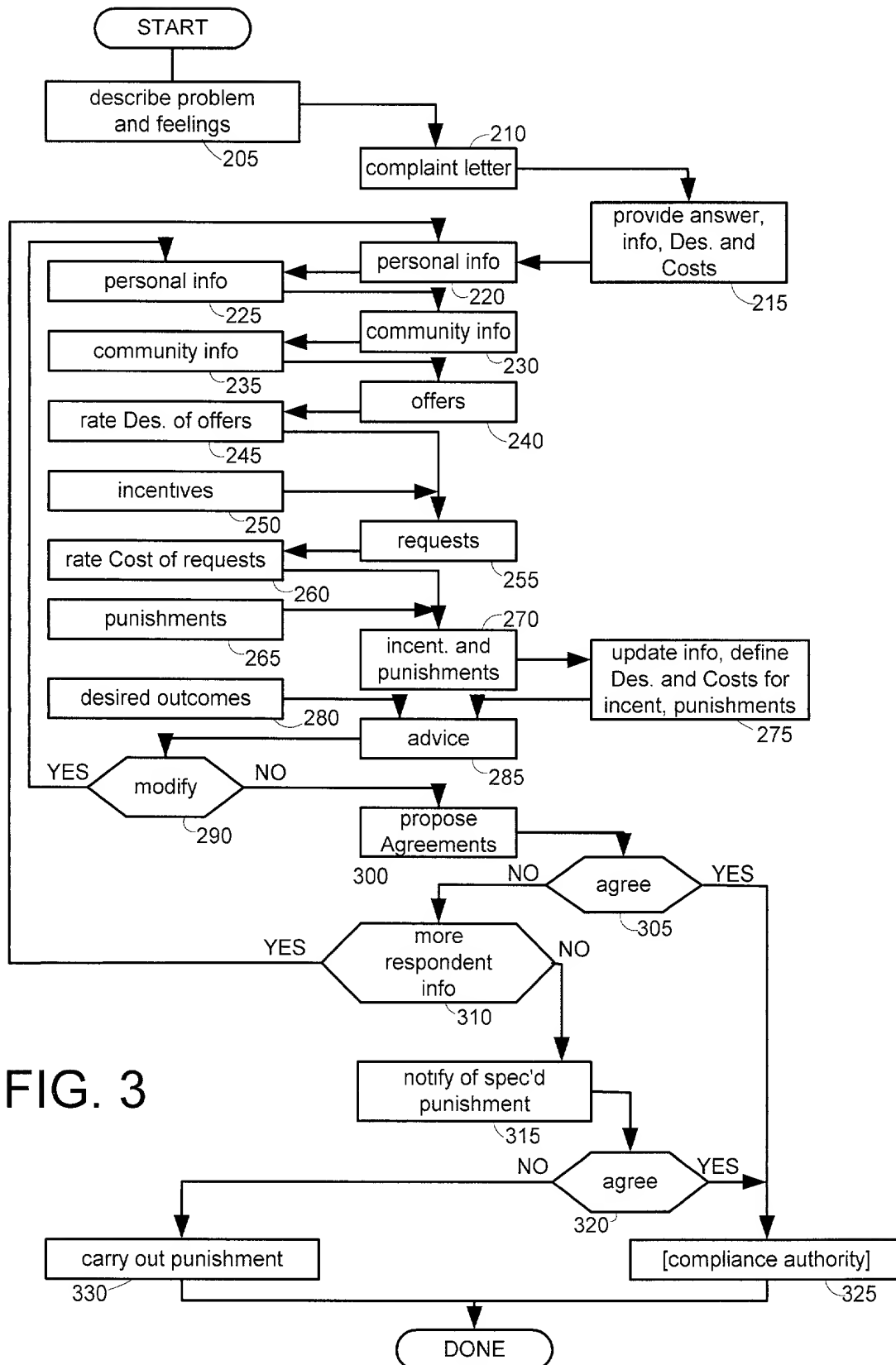
RESPONDENT 30



INITIATOR 20

SYSTEM 40

RESPONDENT 30



PATENT
BRENDA 8

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

I believe I am an original, first and joint inventor, of the subject matter which is claimed and for which a patent is sought on the invention entitled **AUTOMATED CROSS-CULTURAL CONFLICT MANAGEMENT**, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification. I acknowledge the duty to disclose all information known to me that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

NONE

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application

NONE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

Brenda Pomerance

Reg. No. 36,894

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